

ABSTRACT OF THE DISCLOSURE

20200507 234500
5 A laser-diode-pumped solid-state laser apparatus
includes a laser rod, and laser diode devices that generate
pumping light. Optical unit such as a reflection mirror and
an optical waveguide medium is provided at a position in a
laser resonator near a laser optical axis and not blocking
the optical axis. A photo-detector detects a quantity of
fluorescence generated from solid-state laser medium. The
10 fluorescence quantity is compared with a predetermined value
or a previously measured value. Thus degradation status of
a laser diode light source is constantly diagnosed.